GR-304

Homoharringtonine

98%, MW=545.6 [26833-87-4] Storage: -20°C

Homoharringtonine is a cephalotaxine alkaloid that induces heat protection and facilitates dissociation of heat shock transcription factor and heat shock element complex $\frac{99}{2}$. Shows antiproliferative activity in various cancer cell lines $\frac{100,101}{2}$.

5 mg

5 x 5 mg

Entrez PubMed Page 1 of 1

1: J Pharm Biomed Anal. 2000 Apr;22(3):541-54.

Related Articles, Links

ELSEVIER FULL-TEXT ARTICLE

Stability-indicating LC assay of and impurity identification in homoharringtonine samples.

He J, Cheung AP, Wang E, Struble E, Fang K, Nguyen N, Liu P.

SRI International, Biopharmaceutical Development Division, Menlo Park, CA 94025, USA. jingyi@pearl.sri.com

Homoharringtonine (HHT) is a potent myelosuppressive agent and has antitumor activity. Recent studies suggest that it inhibits tumor growth by inducing apoptosis. HHT is an ester of the alkaloid cephalotaxine. It is isolated from genus Cephalotaxus. At least ten HHT analogs have been identified from cephalotaxus extracts. High performance liquid chromatography (HPLC) separations of the cephalotaxine alkaloids in plant extracts have been reported, they have not been validated as specific and stability-indicating for HHT. Due to the complexity of the alkaloid extracts, it is conceivable that additional analogs may still be unresolved from HHT. This paper presents an improved and validated HPLC assay for HHT. The assay is stability-indicating, precise (R.S.D. < 1%), linear (r2 = 0.9999), and accurate (error < 1%). The assay reveals three congeners present as impurities in HHT samples. Two are new and have not been previously reported. Identities of the impurities and forced decomposition products, elucidated with their HPLC retention and spectral data, are also presented.

Journal of Clinical Oncology, Vol 3, 617-621, Copyright © 1985 by American Society of Clinical Oncology

ARTICLES

Homoharringtonine: an effective new drug for remission induction in refractory nonlymphoblastic leukemia

RP Warrell Jr, CJ Coonley and TS Gee

Homoharringtonine (HHT) is a new plant alkaloid originally isolated in the People's Republic of China. Preliminary studies have suggested antitumor activity in several neoplastic diseases. We treated 49 patients with relapsed or resistant acute leukemia with escalating doses of homoharringtonine administered by continuous infusion. Three dose levels were examined: 5 mg/m2 for seven days, 7 mg/m2 for seven days, and 5 mg/m2 for nine days. Of 28 patients with acute nonlymphoblastic leukemia who received cumulative doses of 45 to 49 mg/m2, seven patients (25%) achieved complete remission. Four of these remissions occurred in a subset of ten patients previously resistant to two or more induction attempts with conventional chemotherapy. There were no remissions in three patients with secondary leukemia or in seven patients with acute lymphoblastic leukemia. Reversible hypotension, fluid retention, diarrhea, and tumor lysis syndrome were the major toxic effects of this treatment. Our results indicate that homoharringtonine is an effective new drug for the treatment of acute nonlymphoblastic leukemia and that this drug does not share cross- resistance with conventional antileukemic agents. The recommended dose is 5 mg/m2/d administered by continuous infusion for nine days.



BIOTREND Chemikalien GmbH(Part 5)

...Homoharringtonine Daidzein Resveratrol D-myo-Inositol 1,3,4,5- MAFP DCEBIO DCEBIO (S)-(+)-Dimethindene maleate (S)-(+)-Dimethindene maleate PPT PPT Citalopram Hydrobromide Citalopram Hydrobromide Amyloid...

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...Homoharringtonine CAS NO: 26833-87-4 Homopiperonylamine CAS NO: 1484-85-1 Homovanillic Acid CAS NO: 306-08-1 Homoveratronitrile CAS NO: Homoveratrylamin CAS NO: Honeysuckle Flower CAS NO: Honeysuckle Flower...

http://www.chembuyersguide.com/partners/alfachem2.html



Alchemy Importers, Inc.

...Homoharringtonine CAS NO: 26833-87-4 Hydroquinone CAS NO: 123-31-9 Ibandronate Sodium CAS NO: 138926-19-9 Ibuprofen CAS NO: 58560-75-1 Ibuprofen CAS NO: 15687-27-1 Icariin CAS NO: 489-32-7 imidazole CAS NO:...

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Aktin Chemicals, Inc.

...Homoharringtonine CAS NO: 26833-87-4 98% ACN-100 Honokiol CAS NO: 35354-74-6. 98% ACN-101 Huperzine A CAS NO: 102518-79-6 98% ACN-102 Hyodesoxycholic acid CAS NO: 83-49-8 98% ACN-103 Hyperoside CAS NO:...

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NO: 123-31-9 Hydroxycitronellal...

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Fleton Reference Substance Co., Ltd

...**Homoharringtonine** CAS NO: 26833-87-4 98% Huperzine A CAS NO: 102518-79-6 98% Hypaconitine 96% Hyperoside CAS NO: 482-36-0 98% L-5-Hydroxytryptophan CAS NO: 114-03-4 98% Icariin CAS NO: 489-32-7 98%...

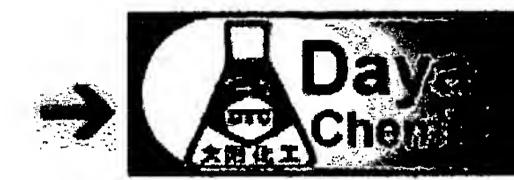
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DSL Chemicals (Shanghai) Co., Ltd(Part 2)

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Manufacturer and Dealer of:

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ChromaDex Inc.

...HOMOHARRINGTONINE(P) Molecular Formula: C29H39NO9 CAS NO: 26833-87-4 ASB-00008315-010 HOMOHARRINGTONINE(P) Molecular Formula: C29H39NO9 CAS NO: 26833-87-4 ASB-00008315-025 HOMOHARRINGTONINE(P) Molecular Formula:...

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CHEMOS GmbH(Part 1)

...Homoharringtonine Homoharringtonine 26833-87-4 ILEXONIN A 95% ILEXONIN A 95% KAIWAN 40% KAIWAN 40% (+)-LAPPACONITINE 95% (+)-LAPPACONITINE 95% 32854-75-4 LOBELIDINE 95%, 98% LOBELIDINE 95%, 98% 90-69-7...

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Brainerd Chemical Company, Inc. (Part 1)

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NetQem, LLC

...Homoharringtonine CAS NO: 26833-87-4 Horsetail P.E CAS NO: Horse Chestnut P.E. CAS NO: Huperzia Serrate P.E. CAS NO: Huperzine A CAS NO: 102518-79-6 3-Hydroxy-3-methylpentanedioic Acid (HMG) CAS NO: 503-49-1...

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Natland International Corporation

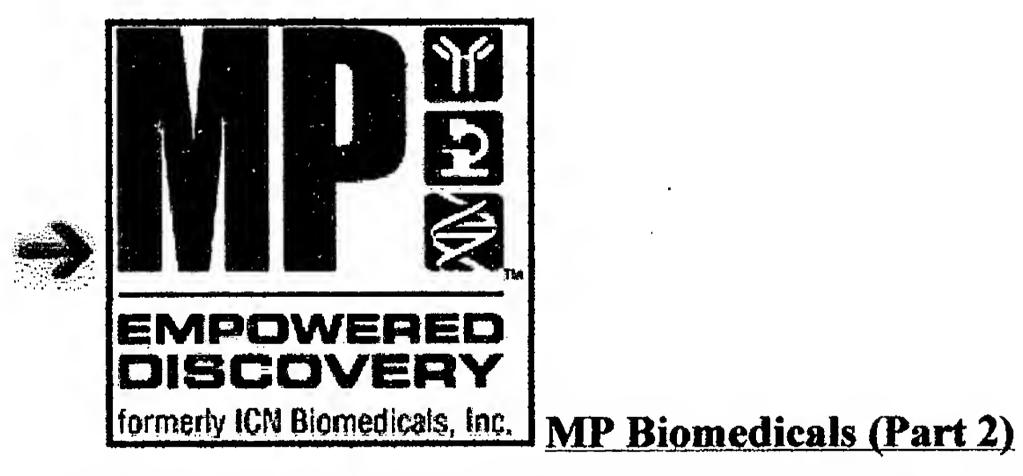
...Homoharringtonine (HHT) CAS NO: 26833-87-4 Luteolin (natural) CAS NO: 491-70-3 Lycorine CAS NO: 476-28-8 Naringenin (natural) CAS NO: 93602-28-9 Paclitaxel CAS NO: 33069-62-4 Podophyllotoxin CAS NO: 518-28-5...

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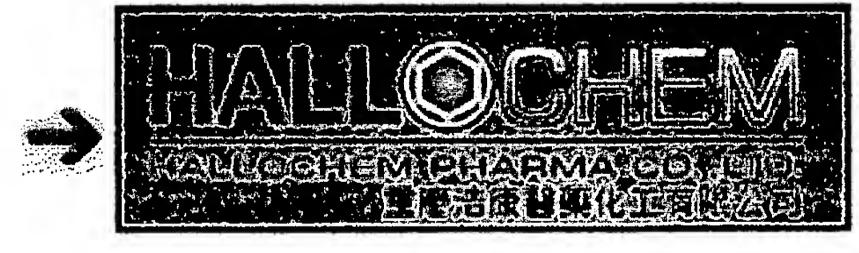


Molekula Group

...Homoharringtonine CAS NO: [26833-87-4] M64283385 Homophthalic acid (2-Carboxyphenylacetic acid) CAS NO: [89-51-0] M68511661 Homophthalic anhydride (2-Carboxyphenylacetic anhydride) CAS NO: [703-59-3] M83210533... http://www.chembuyersguide.com/partners/molekula.html



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...HOMOHARRINGTONINE CAS NO: 26833-87-4 TIMOLOL MALEATE CAS NO: 26839-75-8 PENFLURIDOL CAS NO: 26864-56-2] 3-(1,3-Benzodioxol-5-Yl)-2-Propenoyl Chloride CAS NO: 26930-49-4 Ceftezole sodium CAS NO: 26973-24-0... http://www.chembuyersguide.com/partners/hallochem.html

GREAT CHEMICAL ENTERPRISE CO., LTD.

...Homoharringtonine CAS NO: 26833-87-4 Hops flower extract CAS NO: 8060-28-4 Horsechestnut extract CAS NO: 8053-39-2 Horsetail extract Huperzine A CAS NO: 120786-18-7 Hydroquinone CAS

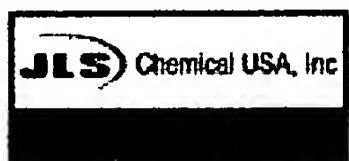




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Spectrum Chemicals & Laboratory Products, Inc. (Part 1)

...Homoharringtonine CAS: 26833-87-4 Homophthalic Acid CAS: 89-51-0 Homosalate CAS: 118-56-9 D-Homoserine CAS: 6027-21-0 DL-Homoserine CAS: 1927-25-9 L-Homoserine CAS: 672-15-1 L-Homoserine Lactone Hydrochloride...

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SK Energy & Chemical

...Homoharringtonine CAS NO: 26833-87-4 2-Methyl-beta-naphthiazole CAS NO: 2682-45-3 2-Methyl-3(2H)-isothiazolone CAS NO: 2682-20-4 Amoxicillin CAS NO: 26787-78-0 Sodium azide CAS NO: 26628-22-8 Diazo-2,1,5-sodium salt...

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Sciencelab.com, Inc.

...Homoharringtonine Synonym Name: CAS NO: CAS 26833-87-4 Homophthalic Acid Synonym Name: 2-Carboxyphenylacetic Acid; alpha-Carboxy-o-toluic Acid CAS NO: CAS 89-51-0 Homosalate Synonym Name: Homomenthyl Salicylate CAS NO: CAS... http://www.chembuyersguide.com/partners/sciencelab.html

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- 03/25/2005 Phase I/II trial of adding semisynthetic homoharringtonine in chronic myeloid leukemia patients who have ac partial or complete cytogenetic response on imatinib (Cancer)
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- 1 09/04/2003 TopAbstracts in Leukemias 09/04/2003 (DGNews)
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- 12/03/2002 <u>Drug responses of imatinib mesylate-resistant cells: synergism of imatinib with other chemotherapeutic drugs.</u> (Leukemia)
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- 10/24/2000 Homoharringtonine and Low-Dose Cytarabine in the Management of Late Chronic-Phase Chronic Myelogen-Leukemia - (J Clin Oncol)
- 11/03/1998 Characterization of H+-ATPase-dependent activity of multidrug resistance-associated protein in homoharring resistant human leukemic K562

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, LI Yu-feng, ZHU Jia-bin, W Chun-ling, D Bang-he, ... - 🖂 🖂 🖂 🖂 🗘 (🔾 🖂 🔾), 2005 - 🖂 🖂 🖂 🖂 1280-8. [3]Cai Z, Lin ... chemotherapy[J]. Bull Cancer 1995; 82: 987-95 ... Web Search

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YE Xiu-jin, LIN Mao-fang - zju.edu.cn ... Journal of Zhejiang University SCIENCE ISSN 1009-3095 http://www.zju.edu.cn ... Cai,Z., Lin, M., Wuchter, C., Ruppert, V., Dörken, B., Ludwig ... Buil Cancer, 82:987-995 ... View as HTML - Web Search

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